BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Extention of Major culvert at singapura main road near Ward office in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.

Code: 011-17-000006		P-3165			Estimate Cost Rs.			3000000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB M200-12.2 : Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled materials, disposal of unserviceable material and stacking the serviceable material with all lifts and lead and lead of 10000 meters complete as per specifications. lime/cement concrete, I.by manual means B. cement concrete grade M-15 & M-20. **No. 136 / Item No. 18.18 / PWD SR 2015-16**	Cum							
	Existing Culvert parapet Wall L/S		2	1.50	0.50	0.60	0.90		
			1	9.50	0.50	0.60	2.85		
	Existing Culvert parapet Wall R/S		1	13.70	0.50	0.60	4.11		
			1	2.80	0.50	0.60	0.84		
			1	1.60	0.50	0.60	0.48		
	Head Wall		2	6.60	0.75	2.50	24.75		
							33.93	382.32	**12972.00**
	Basic Rate	354.00							
	Area Weightage @8%	28.32							
	Total	**382.32**							
2	KSRB 2-2.2 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in Hard soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, **Page No. 5 / Item No. 2.3 / PWD SR 2015-16**	Cum							
	For New Culvert		1	13.50	9.00	4.00	486.00		
							486.00	397.99	**193424.00**
	Basic Rate	267.00							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.2 / km= 33.51	33.51							
		368.51							
	Area Weightage @8%	29.48							
	Total	**397.99**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 2.8 : Providing and filling in foundation with granite/trap broken metal 100mm, and down size, with approved sand including had packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications. Specification. No. KBS, **Page No. 6 / Item No. 2.15 / PWD SR 2015-16**	Cum							
	For New Culvert		1	13.50	9.00	0.45	54.68		
							54.68	2174.04	**118866.00**
	Basic Rate	2013.00							
	Area Weightage @8%	161.04							
	Total	**2174.04**							
4	KSRB 4-1.2 : Providing and laying in position plain cement concrete of **mix 1:3:6 with OPC cement @ 220 Kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.2/ PWD SR 2015-16**	Cum							
	For New Culvert		1	13.50	9.00	0.20	24.30		
							24.30	5236.92	**127257.00**
	Basic Rate	4849.00							
	Area Weightage @8%	387.92							
	Total	**5236.92**							
5	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete for R.C.C works laid in 15cms thick layers and well compacted vibrating curing etc. including smooth finish in CM 1:3,with all lead and lift etc., complete. (exclusive of cost of steel and fabrication charges) Ready mixed Cement concrete for Beams, column, Staircase and Roof with M-25 (1:1:2) (Cement - 399 Kg/Cum) **Page No. 18 / Item No. 4.49.2/ PWD SR 2015-16**	Cum							
	New CD near Ward Office Singapura Main Road Bottom Concrete		1	13.50	9.00	0.50	60.75		
	Side Walls		2	13.50	0.6+1.8	3.00	97.20		
					2				
	Deck Slab		1	13.50	6.60	0.50	44.55		
	parapet Wall		2	6.60	1.20	0.15	2.38		
							204.88	5236.92	**1072919.00**
	Basic Rate	4849.00							
	Area Weightage @8%	387.92							
	Total	**5236.92**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**	Tonne							
			0.1	204.88			20.49		
							20.49	59327.91	**1215486.00**
	Basic Rate	54933.25							
	Area Weightage @8%	4394.66							
	Total	**59327.91**							
7	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16**	Sqm							
	Bottom Slab		2	13.50		0.50	13.50		
			2	9.00		0.50	9.00		
	Side Wall		2	13.50		3.00	81.00		
			2	13.50		3.50	94.50		
	Deck Slab Bottom		1	13.50	5.20		70.20		
			2	13.50		0.50	13.50		
			2	6.60		0.50	6.60		
	Parapet wall		4	6.60		1.20	31.68		
							319.98	306.72	**98144.00**
	Basic Rate	284.00							
	Area Weightage @ 8%	22.72							
	Total	**306.72**							
	For Road Diversion Work								
8	KSRRB M300-53: Construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) **MORTH specification No. 305, No. 147 / Item No. 19.60 / PWD SR 2015-16**	Cum							
	For Divery Road Work		1	60.00	7.50	0.45	202.50		
							202.50	311.04	**62986.00**
	Basic Rate	288.00							
	Area Weightage @8%	23.04							
	Total	**311.04**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
9	Providing and laying reinforced cement concrete pipe NP3 for culverts including pointing ends, and fixing collars with cement mortar 1:2 including cost of all materials, labour, curing complete as per specifications, 750 mm dia specification No. KSRB 1000, 2300 MOST specification No. 1000/2300, **No. 246 / Item No. 34.6.4 PWD SR 2015-16**	M							
	for diversion Road work		2	7.50			15.00		
							15.00	4385.88	**65788.00**
	Basic Rate	4061.00							
	Area Weightage @8%	324.88							
	Total	**4385.88**							
	Sub Total								**2967842.00**
	Third Party Inspection Charges @ 1%								**29678.00**
	Miscellaneous and other Charges	L/S							**2480.00**
								Total	**3000000.00**
Rupees Thirty Lakh(s) Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

24/12
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

24/12

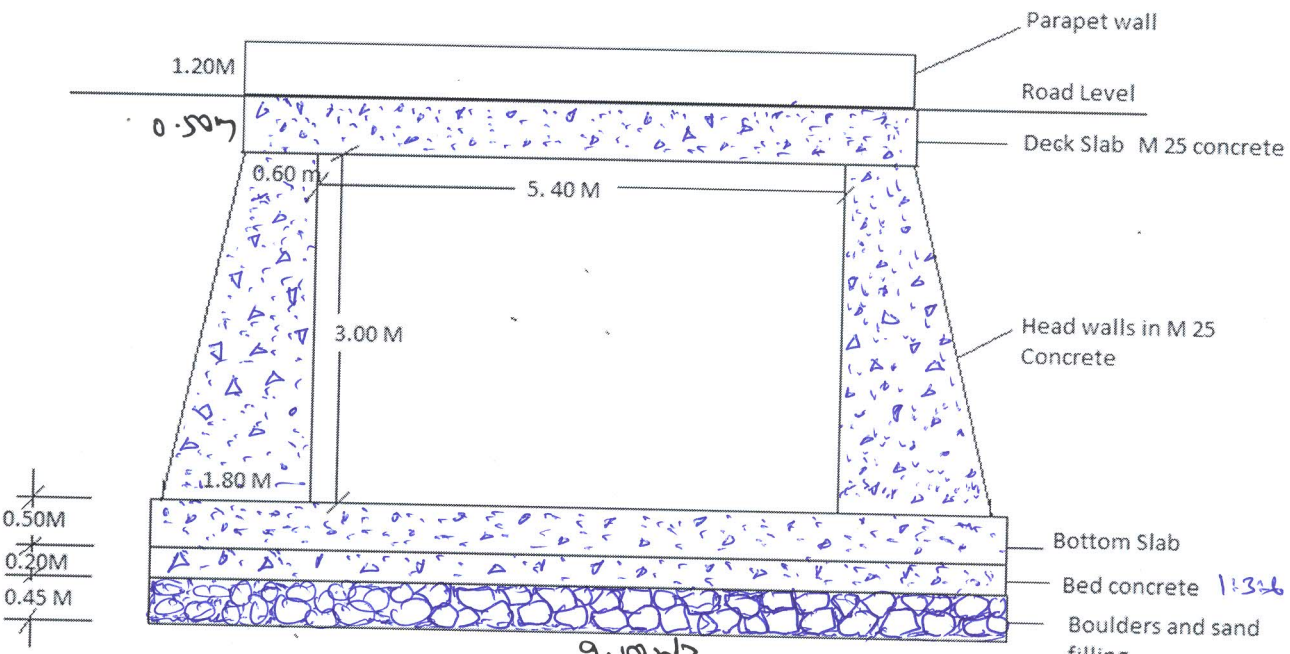
Administrative Approval
Accorded For 30.00 lakh Rs.
Head of A/C P-3165
CER NO : 76 Dt:. 31 12 16

TA CE (YNK)

Technical Sanction
Accorded For 30.00 lakh Rs.
Head of A/C P-3165
CER NO : 86 Dt:. 31 12 16

TA CE (YNK).

Name of work : Construction of major Culvert at Singapura main road near Ward Office in ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division

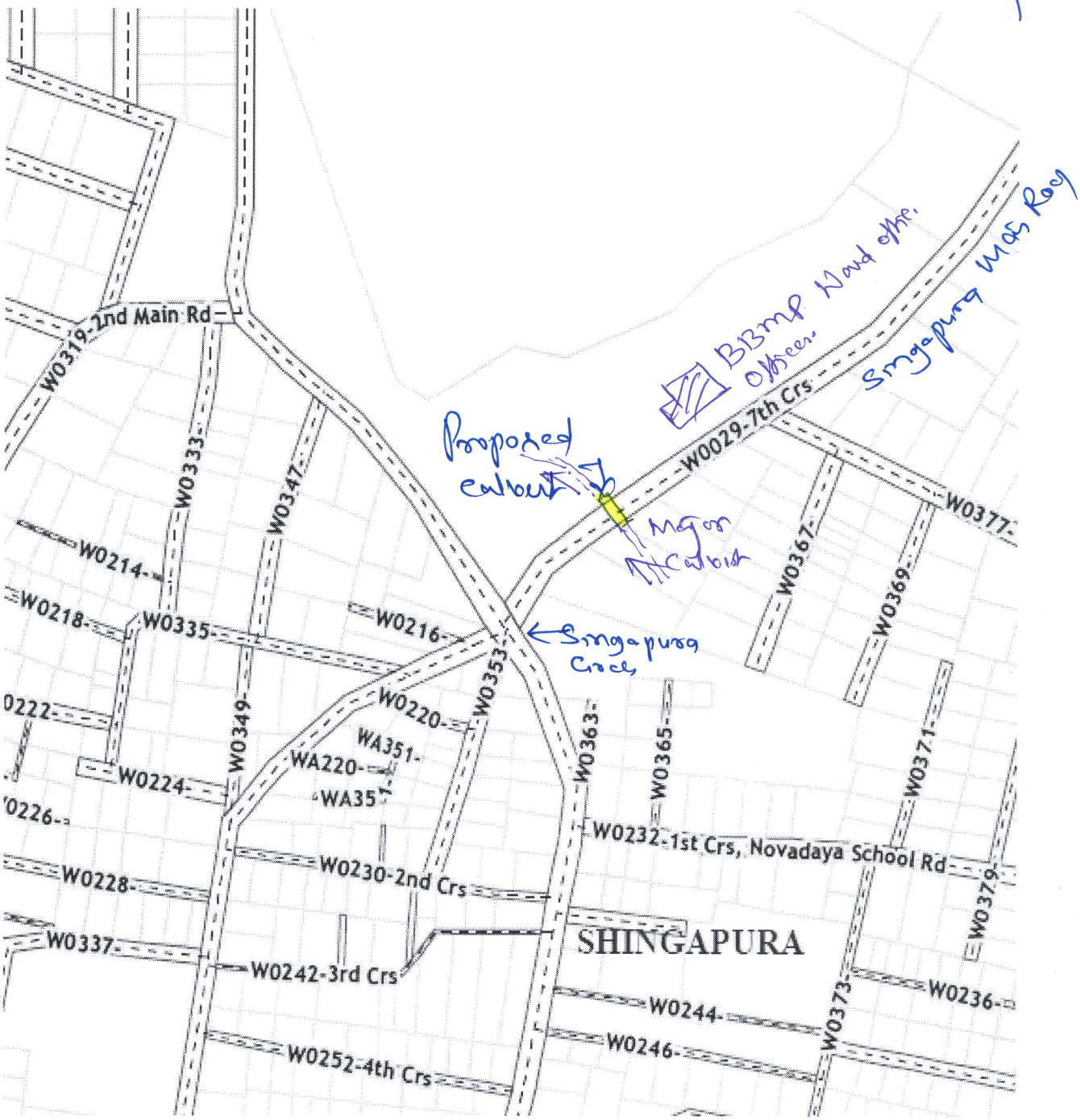


Cross section of major Culvert

Assistant Engineer
Ward no 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

Name of work : Extension of Major culvert at singapura main road near Ward office in ward No 11(Kuvempunagara) in Vidyaranyapura Sub Division.



Assistant Engineer
Ward no 11

Assistant Executive Engineer
Vidyaranyapura sub Division, BBMP